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LOWER EXTREMITIES

Name: Paul Aiken

Date: 12/21/12

Age: 53

Ref. M.D.: Shepard

MOTOR NERVES CONDUCTION STUDIES:

| NERVE | DISTAL LATENCY msec (mV)/cm | PROXIMAL LATENCY msec (mV)/cm | VELOCITY m/sec |
|---------------------|--------------------------------|-------------------------------------|-------------------|
| R. Common Peroneal | 4.6(8) | 12.6(6)/40 | 50 |
| R. Posterior Tibial | 5.4(6) | 16.0(4)/48 | 45 |
| L. Common Peroneal | 4.4(6) | 12.0(6)/40 | 52 |
| L. Posterior Tibial | 5.6(8) | 16.6(6)/48 | 43 |

SENSORY NERVE CONDUCTION STUDIES:

| NERVE | LATENCY MILLISECONDS | AMPLITUDE MICROVOLTS |
|------------------|----------------------|----------------------|
| R. Sup. Peroneal | 3.2 | 8 |
| R. Sural | 3.0 | 6 |
| L. Sup Peroneal | 3.4 | 4 |
| L. Sural | 3.0 | 8 |

"F" WAVES:

LATENCY MILLISECONDS

| | Right | Left |
|----------|-------|------|
| Peroneal | 48.8 | 49.1 |
| Tibial | 54.1 | 53.1 |

"H" REFLEXES:

| | | |
|--------------|------|------|
| Post. Tibial | 32.1 | 32.8 |
|--------------|------|------|

IMPRESSION:**IMPRESSION:**

- Normal sensory latencies and normal amplitudes of the responses in all nerves tested.
- Normal distal motor latencies and normal amplitude of the responses in all nerves tested.
- Normal nerve conduction velocities in all nerves tested.
- Normal "F" waves and "H" reflexes.

ELECTROMYOGRAM OF LOWER EXTREMITIES

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| MUSCLES TESTED: | Insertional Activity | | | Muscle at Rest | | | | | Muscle at Contraction | | | | |
|--------------------------|-------------------------|----|----|----------------|---|-----|----|---|-----------------------|---|----|----|---|
| | N | IA | DA | N | F | psw | FS | O | N | P | SU | GU | O |
| Right and Left | N | IA | DA | N | F | psw | FS | O | N | P | SU | GU | O |
| Extensor Dig. Brevis | X | | | | | x | | | | x | | | |
| Extensor Hallucis Longus | X | | | X | | | | | X | | | | |
| Flexor Digitorum Longus | X | | | X | | | | | X | | | | |
| Medial Gastrocnemius | X | | | X | | | | | | x | | | |
| Tibialis Anterior | X | | | | | x | | | | x | | | |
| Quadriceps | X | | | X | | | | | X | | | | |
| Vastus Lateralis | x | | | x | | | | | X | | | | |

Positive sharp waves and polyphasic units in both EDB's and both anterior tibialis.

Polyphasic units in both medial gastrocnemius.

Paraspinal muscles were not done because the patient is status post lumbar laminectomy.

CONCLUSION:

Chronic denervation from bilateral S1 radiculopathy

Acute and chronic denervation from bilateral L4-5 radiculopathy.

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